	Application No.	Applicant(s)		
	10/053,772	SAKAMOTO ET AL.	SAKAMOTO ET AL.	
Notice of Allowability	Examiner	Art Unit		
·	John R. Cottingham	2116	•••	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in to or other appropriate communicements. This application is sufficient to the communicement of the communication	his application. If not included ication will be mailed in due cou	ırse. THIS	
1. \boxtimes This communication is responsive to <u>the application filed o</u>	<u>n 1/24/02</u> .			
2. The allowed claim(s) is/are <u>1-3</u> .	•			
3. The drawings filed on 24 January 2002 are accepted by the	e Examiner.		•	
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 	e been received.			
 Copies of the certified copies of the priority does International Bureau (PCT Rule 17.2(a)). 	cuments have been received i	n this national stage application	from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requir	ements	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			ICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		, •	
(a) \square including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-948) attached	•	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			* **	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in	n the Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			ck) of	
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			e the	
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 Motion of Info	rmal Patent Application (PTO-1	52)	
Notice of References Cited (PTO-992) Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sun	• • • • • • • • • • • • • • • • • • • •	J2) . '	
	Paper No./M	ail Date mendment/Comment		
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 			•	
4. Examiner's Comment Regarding Requirement for Deposit		tatement of Reasons for Allowa	nce	
of Biological Material	9.		٠.	
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REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: the prior art of record neither teaches nor suggests all of the claimed subject matter of claim 1 including a step of waiting for an interrupt of the vertical synchronization signal which serves as a trigger pulse, and transitioning to a fourth step when the interrupt is generated, wherein a video detector calculates data from one screen of video at CLK-DLY for use in an automatic adjustment, and transfers video detection data (WDEO-DATAICLK-DLYI) at CLK-DLY to a video detection data memory when the interrupt is generated; a sixth step of reading video detection data (WDEO-DATAICLK-DLY- 1)) from said video detection data memory by said CPU, holding the read video detection data in a RAM of said CPU as optimal phase determination data 'at each phase set value, and returning again to said third step when a processing at this sixth step is completed. The prior art of record neither teaches nor suggests all of the claimed subject matter of claim 2 including a clock pulse generator for generating a clock pulse from a horizontal synchronization signal, said analog video input signal being sampled with said clock pulse; and a phase control data memory for holding the phase control data from said CPU, said phase control data memory being triggered by a vertical synchronization signal to transfer the phase control data to said phase controller. The prior art of record neither teaches nor suggests all of the claimed subject matter of claim 3 including a step of waiting for an interrupt of a vertical synchronization signal which serves as a trigger pulse, and transferring phase control data (CLK-DLY=O) from said phase control data memory to a phase controller when the interrupt is generated; and

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the step of a seventh step of reading video detection data (WDEO-DATAICLK+DLY-X) from said video detection data memory holding the read video detection data in a RAM of said CPU as optimal phase determination data at each phase set value, returning again to said fourth step when a processing at this seventh step is completed. The prior art shows, such as Hirakawa et al. U.S. Patent Application Publication 200/0061675, show the horizontal and vertical synchronization signals both go through a PLL and the vertical synchronization signal does not go through the CPU. Lee at al. U.S. Patent Application Publication 2003/0016199 shows both the horizontal and vertical synchronization signals both go through the same timing control unit. Takahashi et al. U.S. Patent 5,604,513 shows both the horizontal and vertical synchronization signals both go through the same control signal generator.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John R. Cottingham whose telephone number is (571) 272-7079. The examiner can normally be reached on Monday - Thursday, alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne Browne can be reached on (571)272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John R. Cottingham
Primary Examiner

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jrc